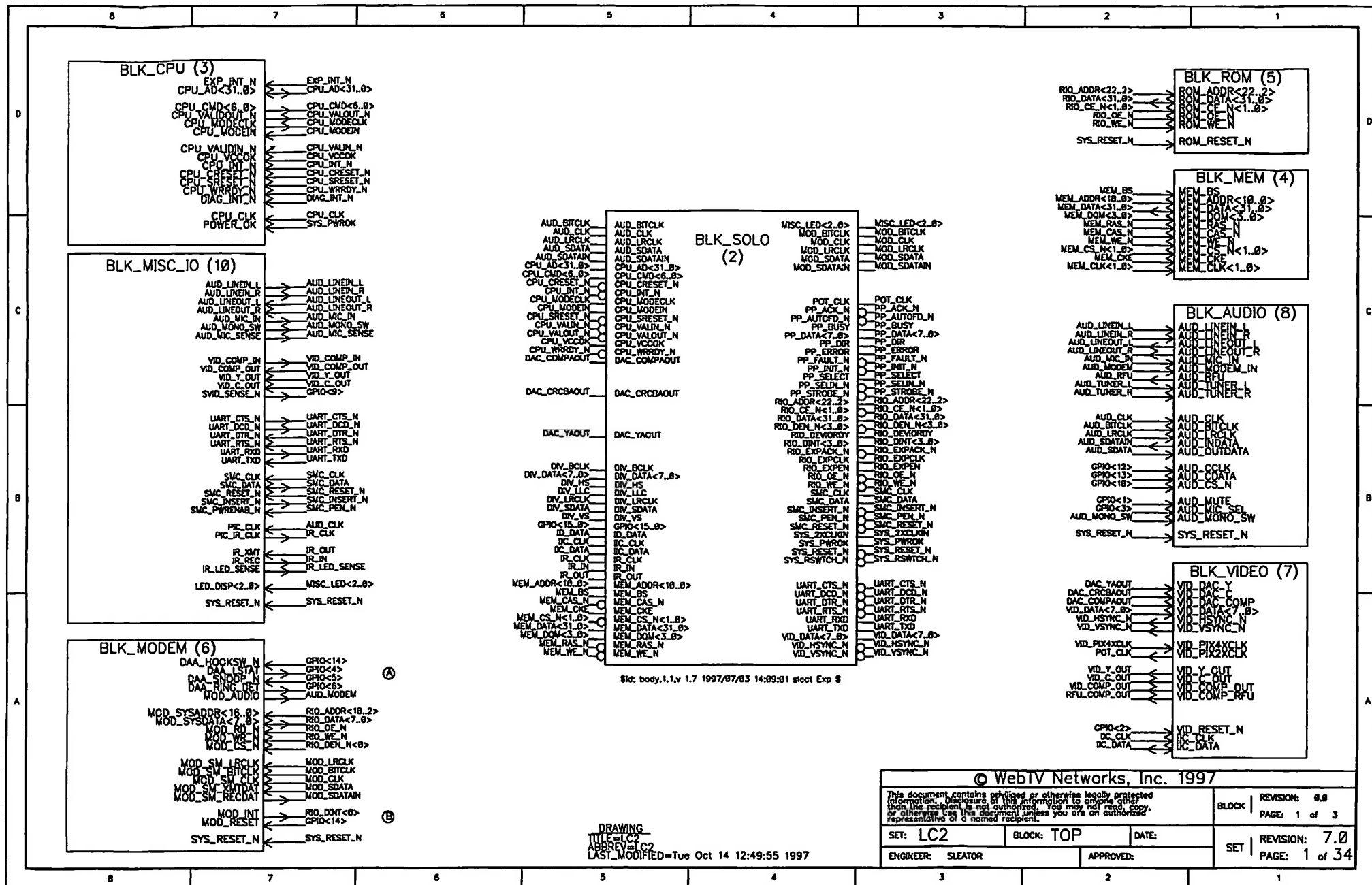


LC2-W



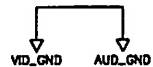
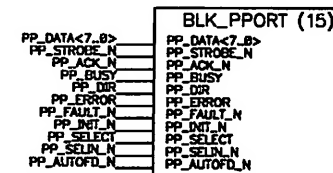
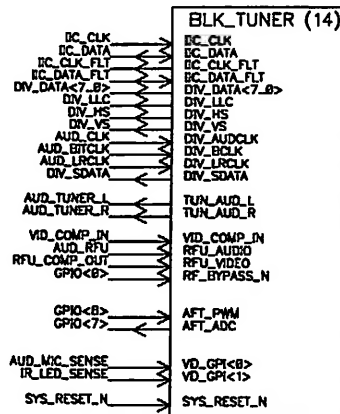
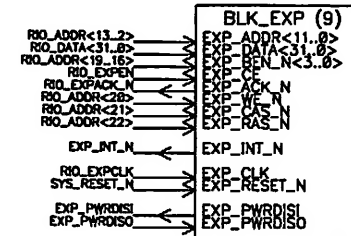
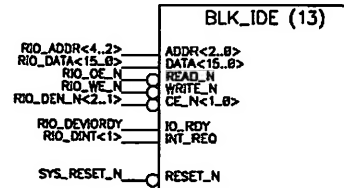
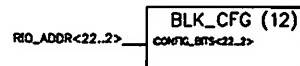
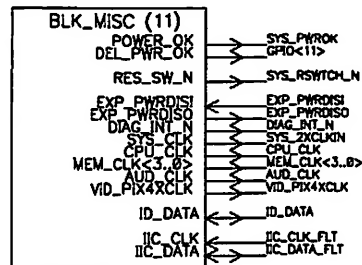
© WebTV Networks, Inc. 1997

This document contains privileged or otherwise legally protected information. Disclosure of this information to anyone other than the recipient is not authorized. You may not make a copy, or otherwise use this document unless you are an authorized representative of a named recipient.

SET: LC2 BLOCK: TOP DATE: ENGINEER: SLEATOR APPROVED:

REVISION: 8.8  
PAGE: 1 of 3  
REVISION: 7.0  
PAGE: 1 of 34

LC2-W



DRAWING:  
 TITLE=LC2  
 ABBREV=LC2  
 LAST\_MODIFIED=Thu Sep 25 22:48:11 1997

© WebTV Networks, Inc. 1997

This document contains privileged or otherwise legally protected information. Disclosure of this information to anyone other than the recipient is not authorized. You may not read, copy, or otherwise use this document unless you are an authorized representative of a named recipient.

BLOCK | REVISION: 8.8  
 PAGE: 2 of 3

SET: LC2 | BLOCK: TOP | DATE:  
 ENGINEER: SLEATOR | APPROVED:

SET | REVISION: 7.0  
 PAGE: 2 of 34

# ISA CONTROL FUNCTIONS ON RIO\_DATA LINES:

Data<31> MEMB  
Data<30> MEMW  
Data<29> ALT\_THINGY

## Exp Control functions on RIO\_DATA lines:

Data<22> RAS\_N  
Data<21> CAS\_N  
Data<20> WE\_N  
Data<19..16> EXP\_BEN\_N<3..0>

# RIO\_DINT<3..0> MAPPING

0 MODEM  
1 DISK  
2  
3

# GPIO MAP

\* GPIO<0> RFU\_ENAB  
\* GPIO<1> SYS\_AUD\_MUTE  
\* GPIO<2> VID\_RESET\_N  
\* GPIO<3> DAA\_LSTAT  
\* GPIO<4> DAA\_SNOOP\_N  
\* GPIO<5> DAA\_RING\_DET  
\* GPIO<6> TUNER\_APT\_IN  
\* GPIO<7> TUNER\_APT\_OUT  
\* GPIO<8> SYVIDEO\_SENSE  
\* GPIO<9> SYS\_AUD\_CS\_N  
\* GPIO<10> DEL\_PWR\_OK  
\* GPIO<11> SYS\_AUD\_CLK  
\* GPIO<12> DAA\_HOOKSW\_N  
\* GPIO<13> MOD\_RESET\_N  
\* GPIO<14>  
\* GPIO<15>

\* On Solo 1.0, GPIO<6..0> are 5V-tolerant.  
GPIO<15..7> are NOT 5V-tolerant.

\*\* On Solo 1.0, GPIO<11> is no longer GP. It is now a dedicated pin.

Ⓐ DAA\_HOOKSW\_N, DAA\_LSTAT, DAA\_SNOOP\_N, and DAA\_RING\_DET:  
GPIO's needed only for soft modem.

Ⓑ MOD\_RESET\_N needed only for hard modem.

## Video Digitizer GPIO Usage:

OUT<0>: Not Used  
OUT<1>: Not Used  
OUT<2>: Not Used  
OUT<3>: Not Used

IN<0>: Microphone Sense  
IN<1>: IR LED Sense  
IN<2>: Not Used  
IN<3>: Not Used

## Video digitizer Y channel input selection:

0: Tuner  
1: Line Input  
4: Not Used  
5: Not Used

© WebTV Networks, Inc. 1997

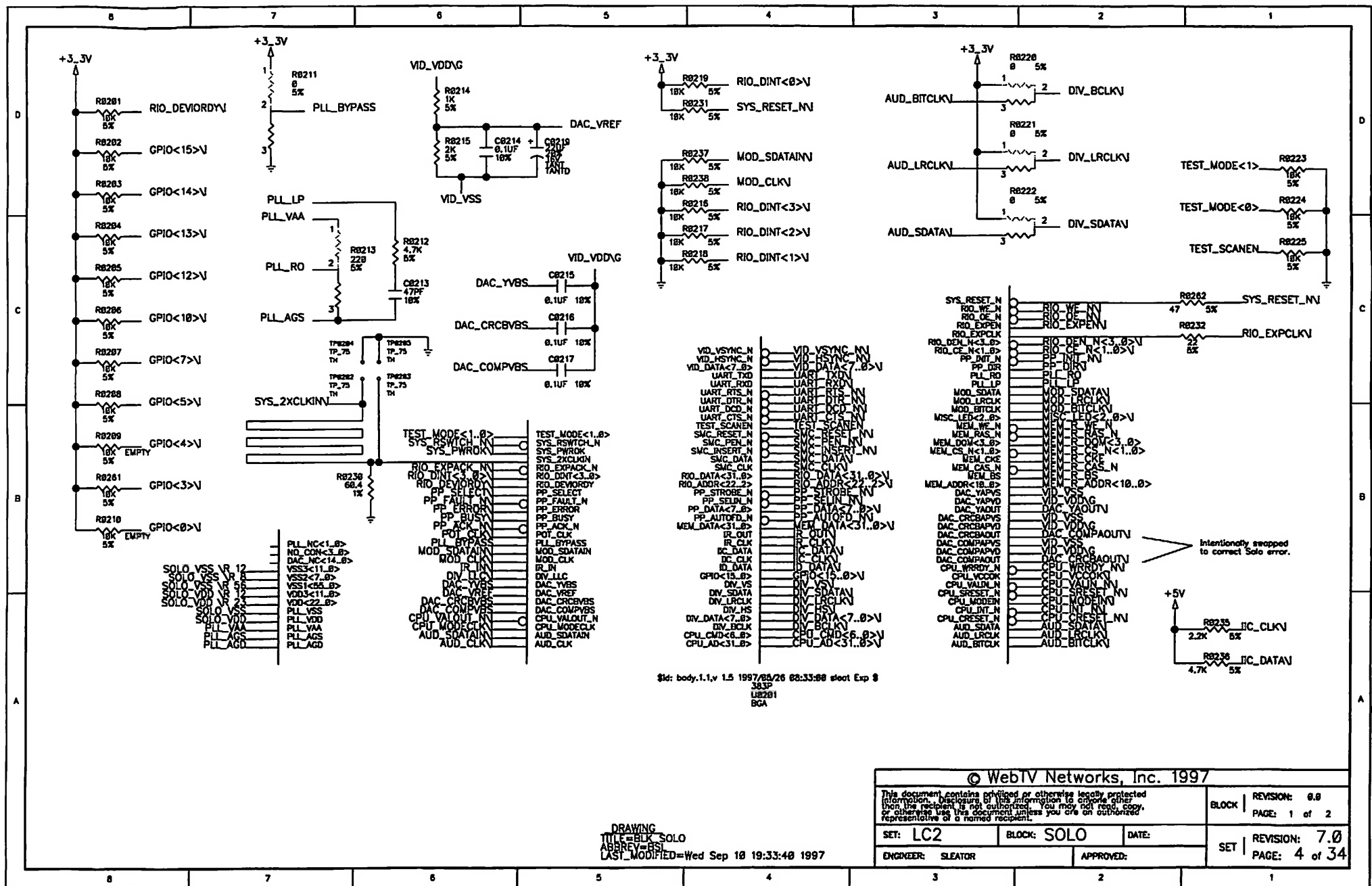
This document contains privileged or otherwise legally protected information. Disclosure of this information to anyone other than the recipient is not authorized. You may not read, copy, or otherwise use this document unless you are an authorized representative of a named recipient.

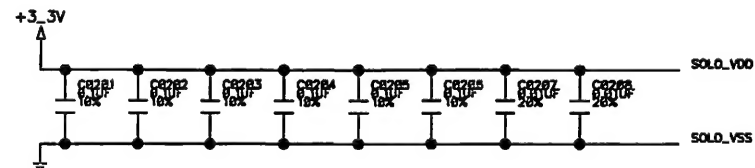
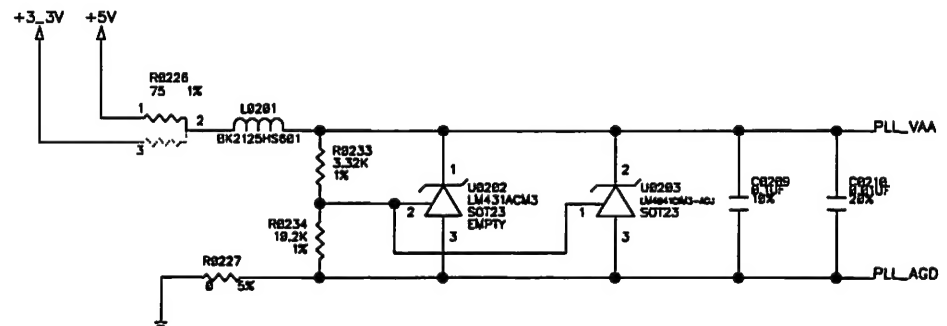
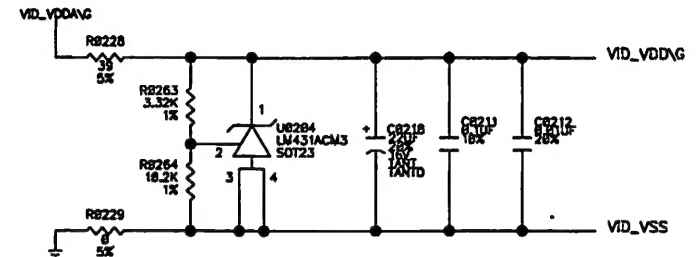
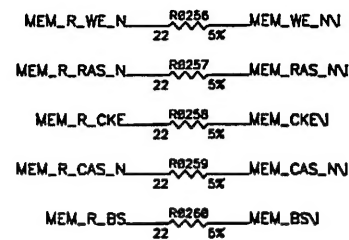
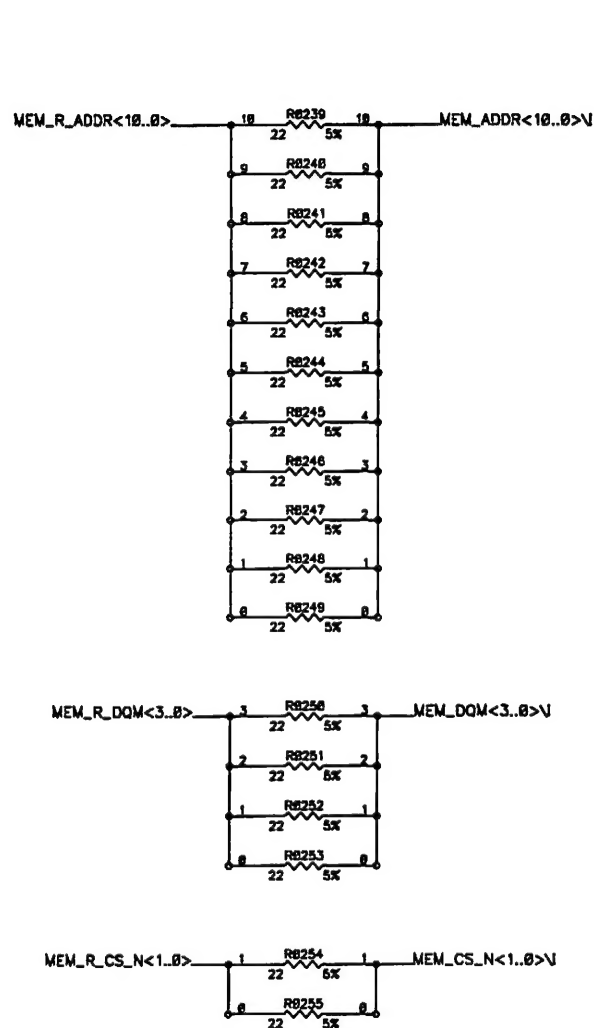
BLOCK REVISION: 0.0  
PAGE: 3 of 3

SET: LC2 BLOCK: TOP DATE:  
ENGINEER: SLEATOR APPROVED:

SET REVISION: 7.0  
PAGE: 3 of 34

DRAWING  
TITLE=LC2  
ABBREV=LC2  
LAST\_MODIFIED=Wed Sep 10 19:33:28 1997





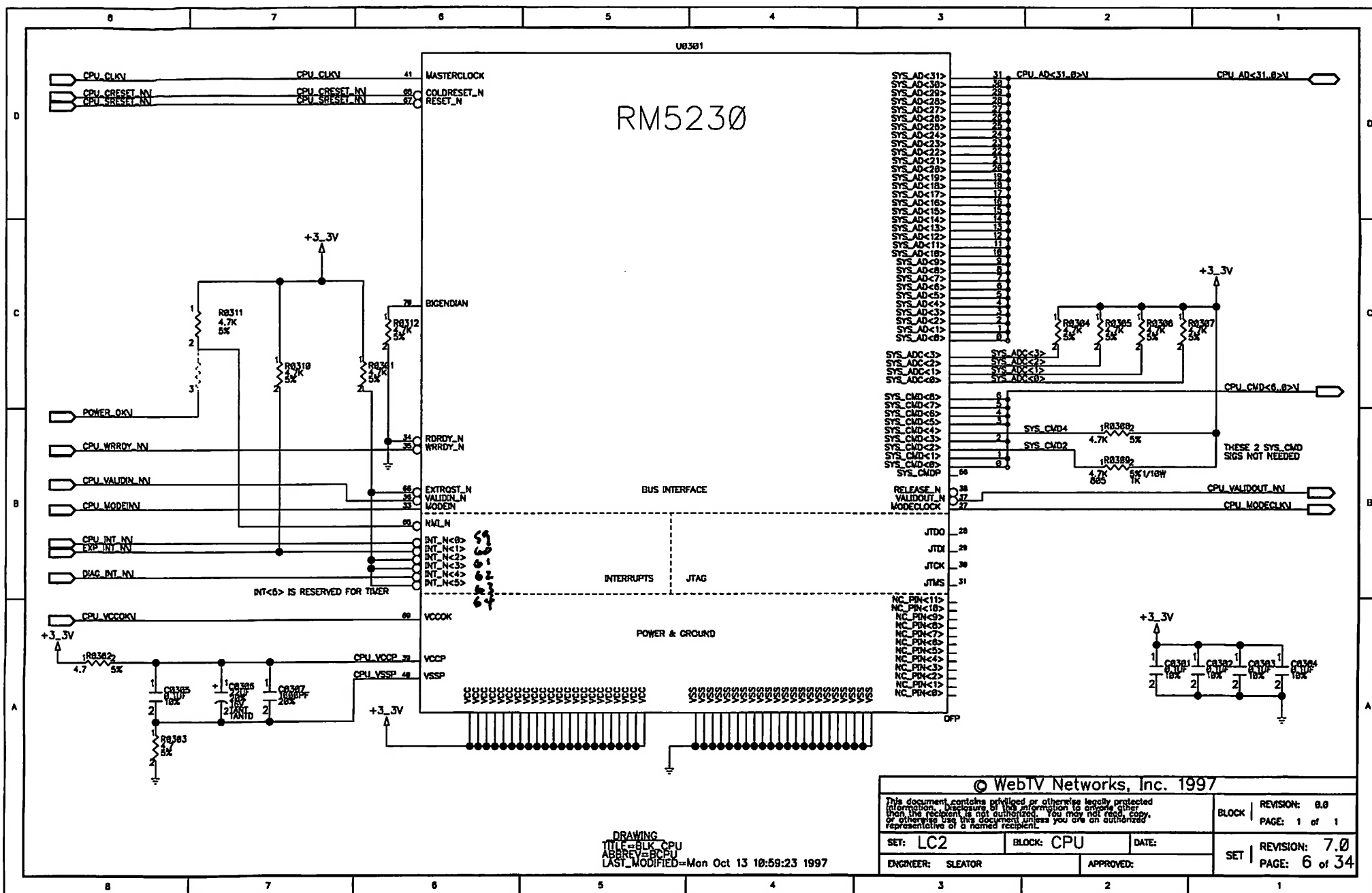
DRAWING  
TITLE=BLK SOLO  
ABBREV=BSI  
LAST\_MODIFIED=Wed Sep 10 19:33:51 1997

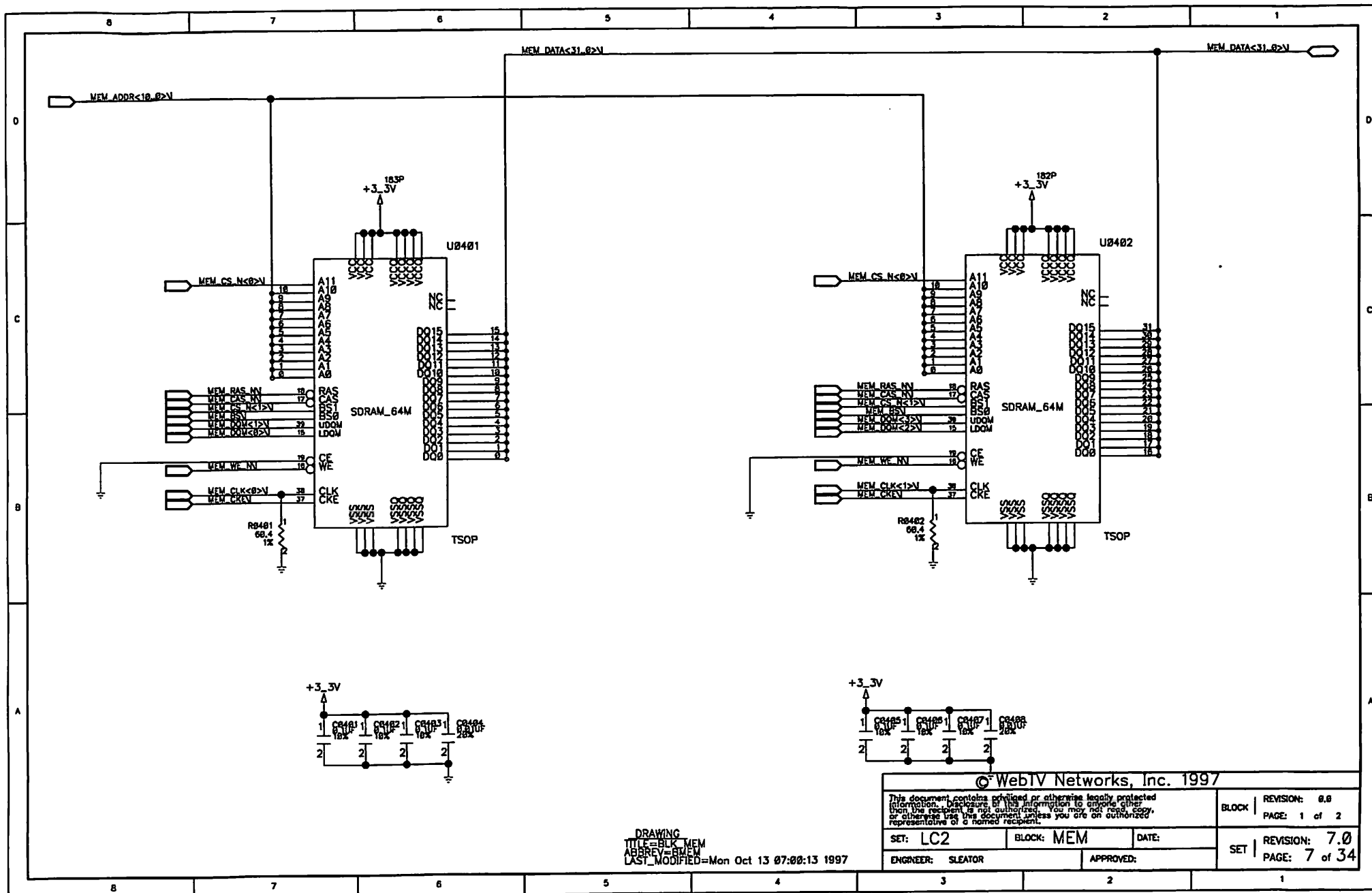
© WebTV Networks, Inc. 1997

This document contains privileged or otherwise legally protected information. Disclosure of this information to anyone other than the recipient is not authorized. You may not read, copy, or otherwise use this document unless you are an authorized representative of a named recipient.

SET: LC2 BLOCK: SOLO DATE: ENGINEER: SLEATOR APPROVED:

BLOCK REVISION: 8.0 PAGE: 2 of 2 SET REVISION: 7.0 PAGE: 5 of 34





DRAWING  
 TITLE=BLK MEM  
 ABBREV=BLK MEM  
 LAST\_MODIFIED=Mon Oct 13 07:00:13 1997

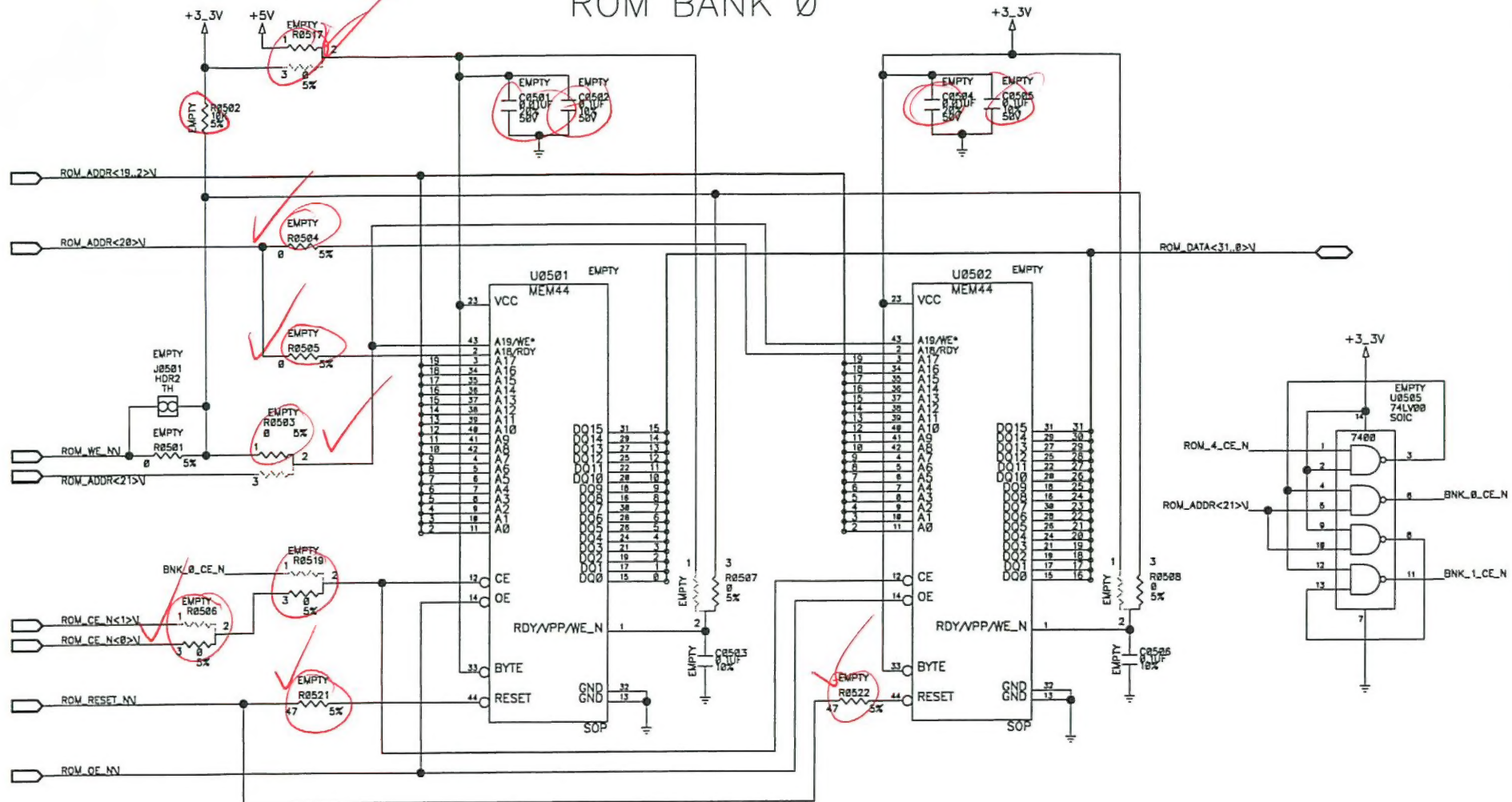
© WebTV Networks, Inc. 1997

This document contains privileged or otherwise legally protected information. Disclosure of this information to anyone other than the recipient is not authorized. You may not make copy, or otherwise use this document unless you are an authorized representative of a named recipient.

SET: LC2 BLOCK: MEM DATE: ENGINEER: SLEATOR APPROVED:

BLOCK REVISION: 0.0 PAGE: 1 of 2 SET REVISION: 7.0 PAGE: 7 of 34

# ROM BANK 0



© WebTV Networks, Inc. 1997

This document contains privileged or otherwise legally protected information. Disclosure of this information to anyone other than the recipient is not authorized. You may not read, copy, or otherwise use this document unless you are an authorized representative of a named recipient.

REVISION: 0.0  
PAGE: 1 of 2

SET: LC2  
BLOCK: ROM  
DATE:

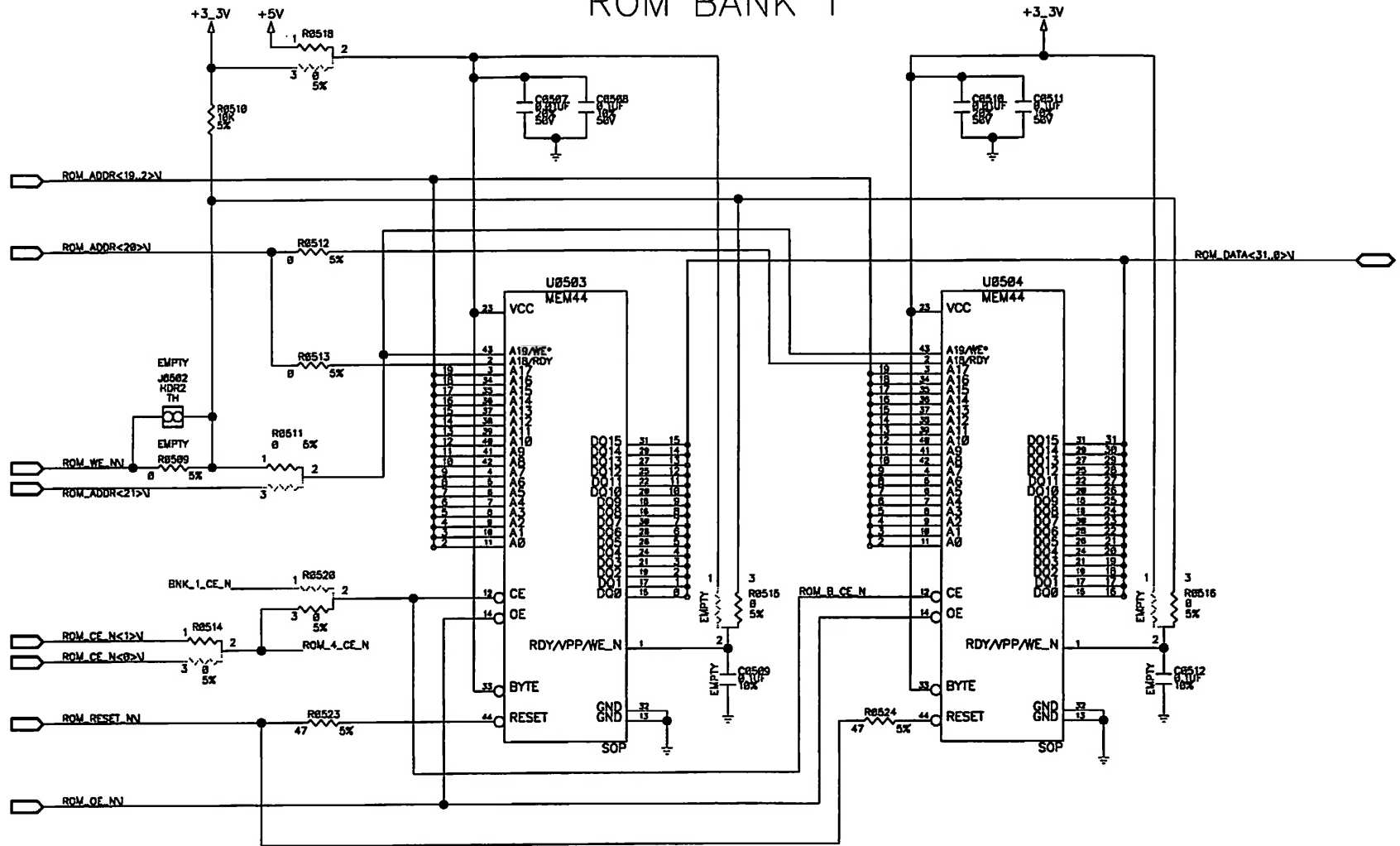
REVISION: 7.0  
PAGE: 9 of 34

DRAWING  
TITLE=BLK\_ROM  
ABBREV=BROM  
LAST\_MODIFIED=Wed Sep 18 19:35:05 1997

ENGINEER: SLEATOR  
APPROVED:



# ROM BANK 1



© WebTV Networks, Inc. 1997

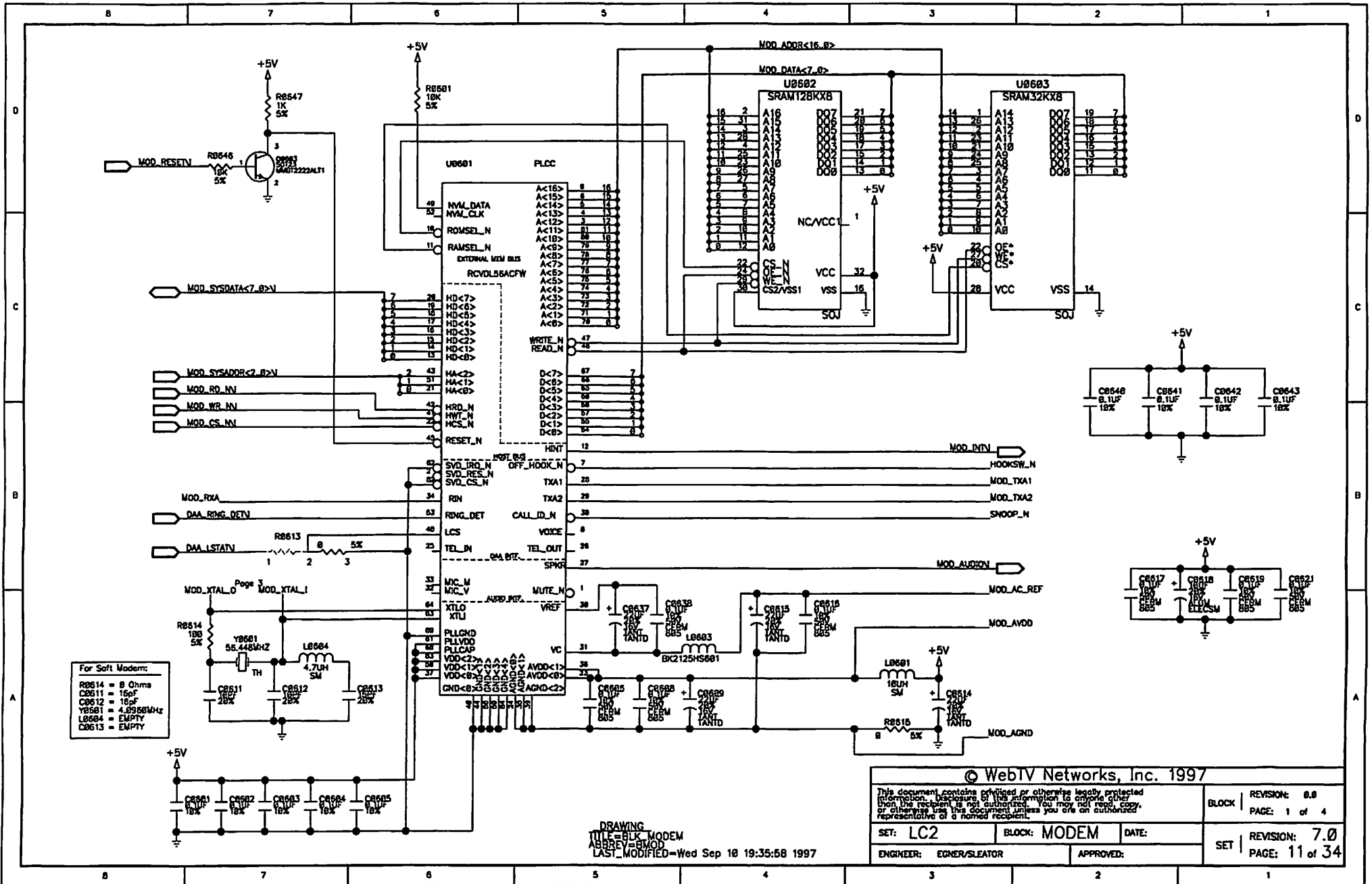
This document contains advice or otherwise legally protected information. Disclosure of this information to anyone other than the recipient is not authorized. You may not read, copy, or otherwise use this document unless you are an authorized representative of a named recipient.

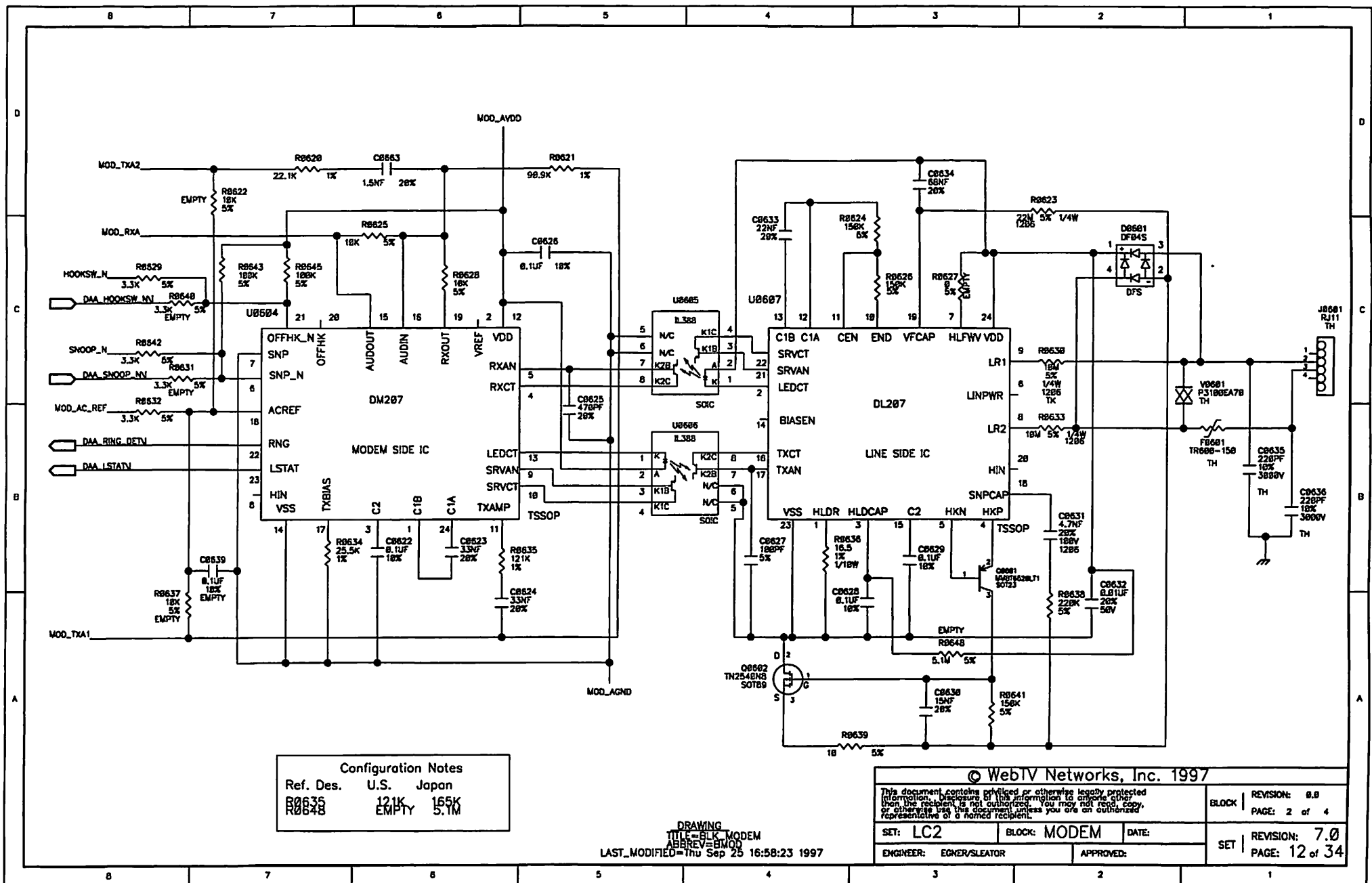
BLOCK REVISION: 0.0  
PAGE: 2 of 2

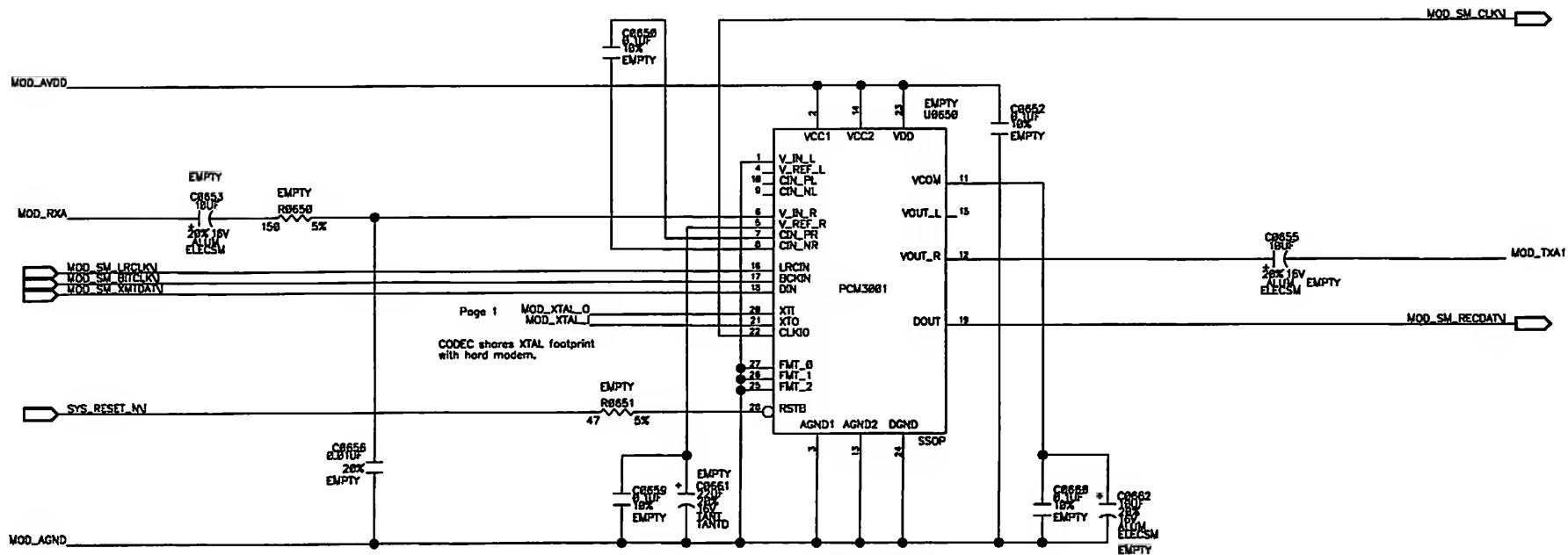
SET: LC2 BLOCK: ROM DATE:  
ENGINEER: SLEATOR APPROVED:

SET REVISION: 7.0  
PAGE: 10 of 34

DRAWING  
TITLE=BLK ROM  
ABREV=ROM  
LAST\_MODIFIED=Thu Sep 25 21:15:03 1997







U8658 NESTED WITHIN U8681 FOOTPRINT.

All components on this page  
are mutually exclusive with  
U0601 and associated  
components on page 1.

## SOFT MODEM CODEC

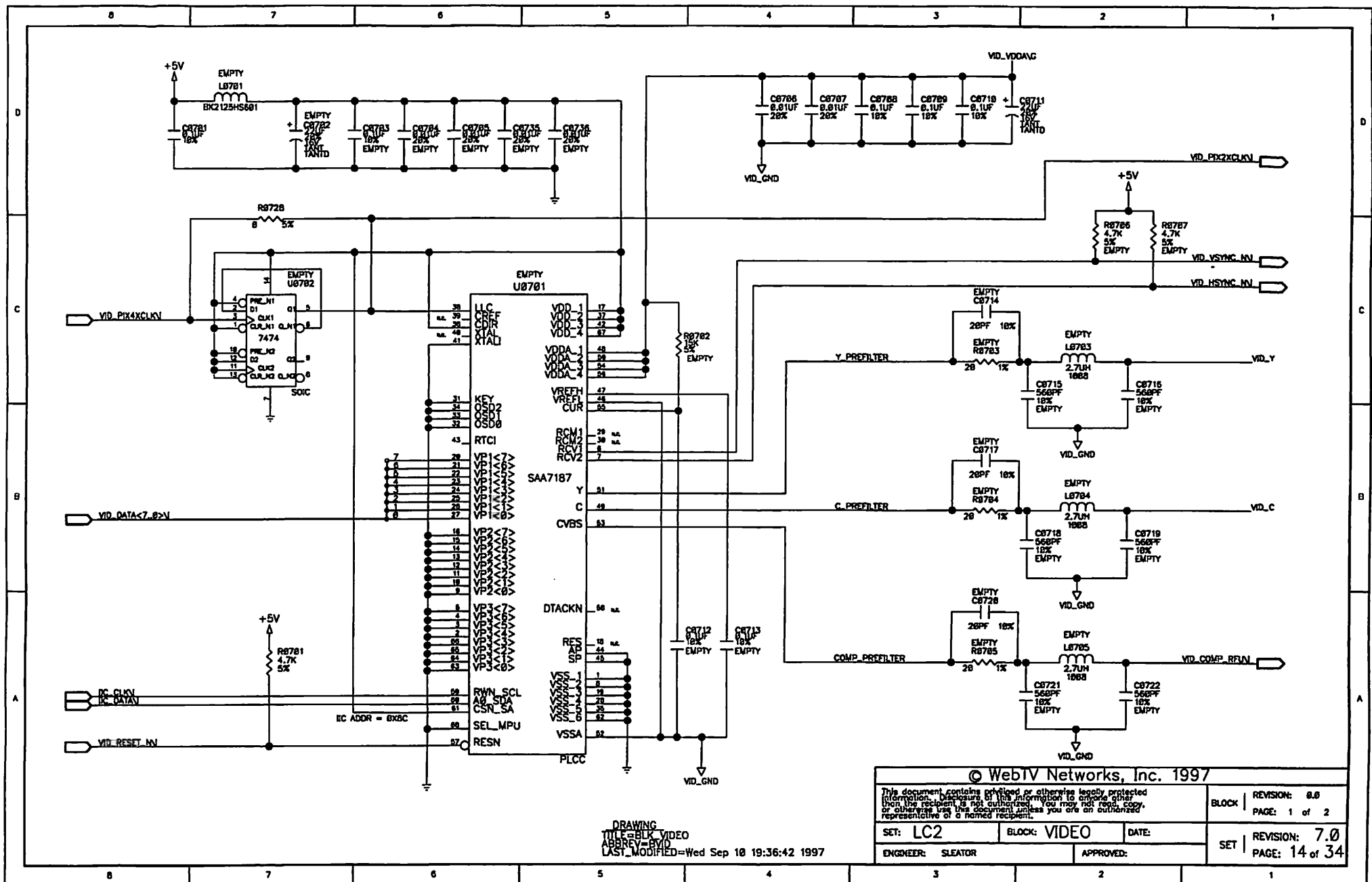
© WebTV Networks, Inc. 1997

This document contains privileged or otherwise legally protected information. Disclosure of this information to anyone other than the recipient is not authorized. You may not reproduce, copy, or otherwise use this document unless you are an authorized representative of a named recipient.

SET: LC2 BLOCK: MODEM DATE: ENGINEER: SLEATOR APPROVED:

BLOCK REVISION: 8.8 PAGE: 3 of 4 SET REVISION: 7.0 PAGE: 13 of 34

DRAWING  
TITLE=BLK MODEM  
ABBREV=BMOD  
LAST\_MODIFIED=Wed Sep 10 19:36:28 1997



© WebTV Networks, Inc. 1997

This document contains privileged or otherwise legally protected information. Disclosure of this information to anyone other than the recipient is not authorized. You may not read, copy, or otherwise use this document unless you are an authorized representative of a named recipient.

REVISION: 0.0

PAGE: 1 of

SET: LC2

BLOCK: VIDEO

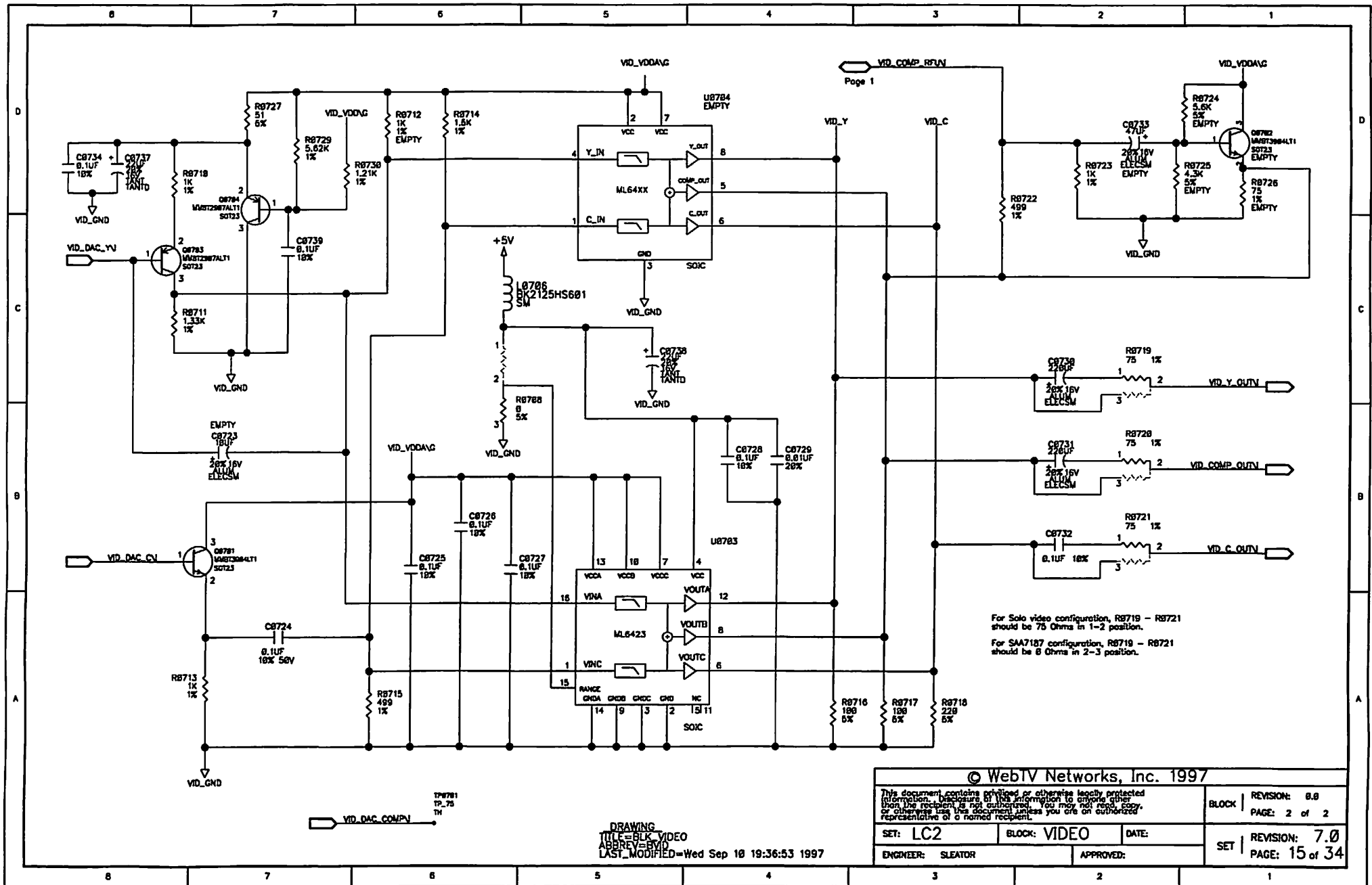
DATE \_\_\_\_\_

ENGINEER: SLEATOR

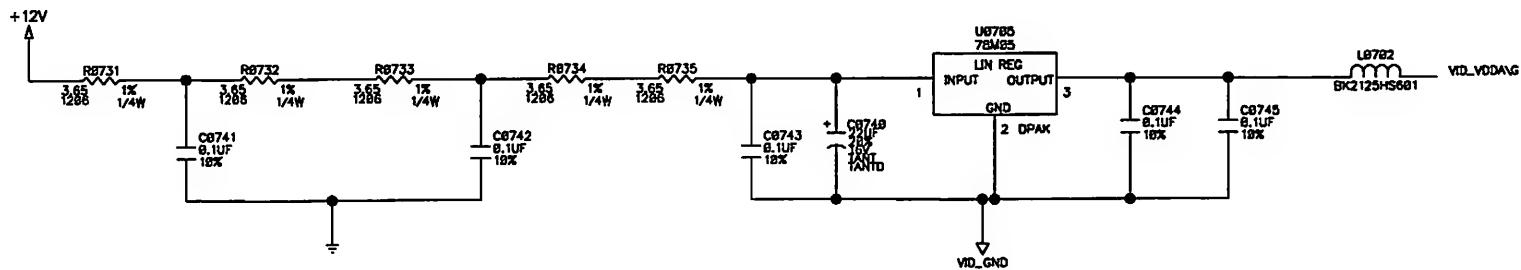
**APPROVED:**

SET | REVISION: 7.0  
PAGE: 14 of 34

SET | REVISION: 7.0  
PAGE: 14 of 34



DRAWING  
 TITLE=BLK\_VIDEO  
 ABBREV=BVD  
 LAST\_MODIFIED=Wed Sep 10 19:36:53 1997



DRAWING  
 TITLE=BLK\_VIDEO  
 ABBREV=BYD  
 LAST\_MODIFIED=Mon Sep 15 16:39:26 1997

© WebTV Networks, Inc. 1997

This document contains privileged or otherwise legally protected information. Disclosure of this information to anyone other than the recipient is not authorized. You may not read, copy, or otherwise use this document unless you are an authorized representative of a named recipient.

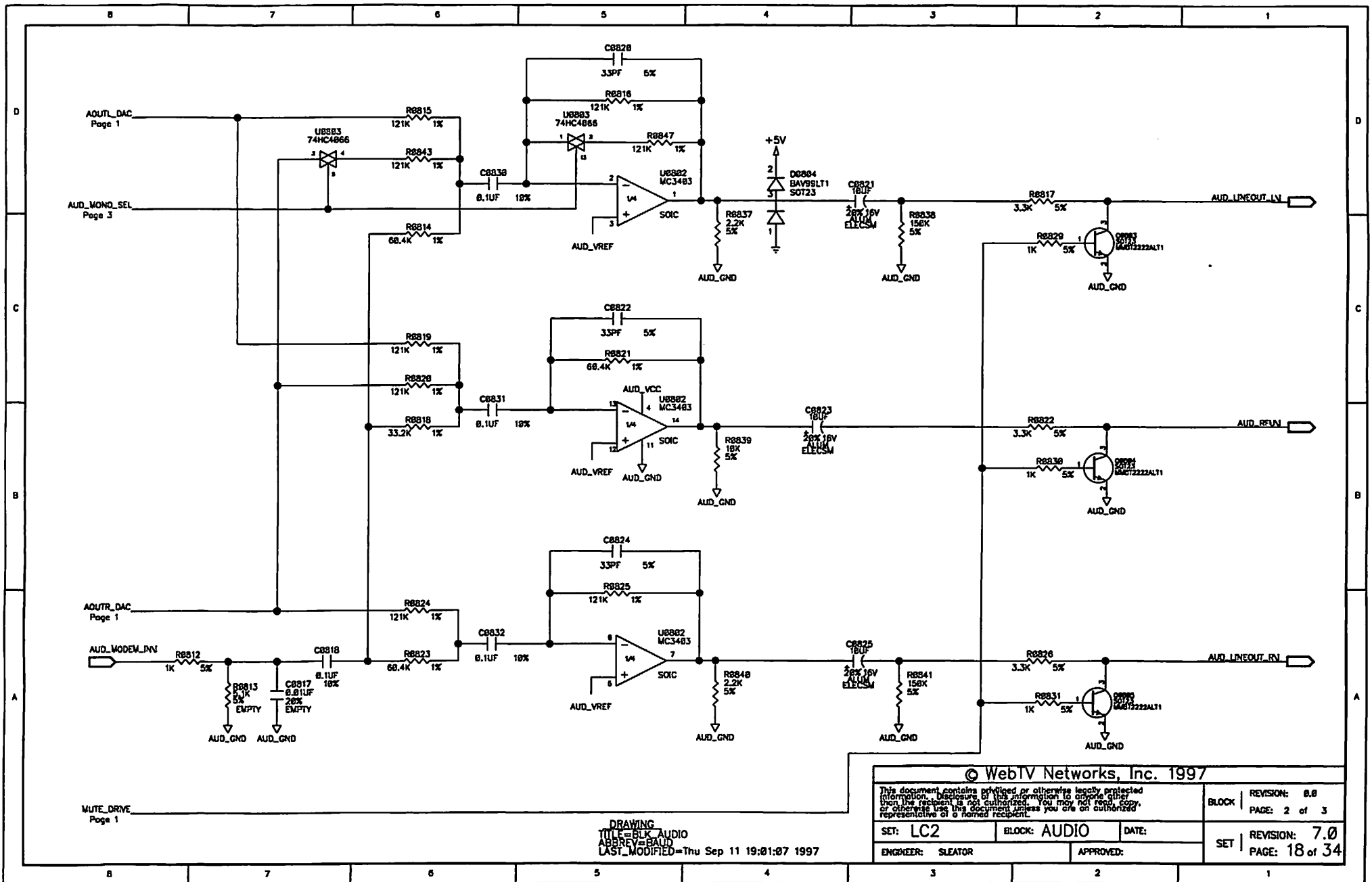
SET: LC2 BLOCK: VIDEO DATE:  
 ENGINEER: SLEATOR APPROVED:

BLOCK REVISION: 8.0  
 PAGE: 3 of 3

SET REVISION: 7.0  
 PAGE: 16 of 34







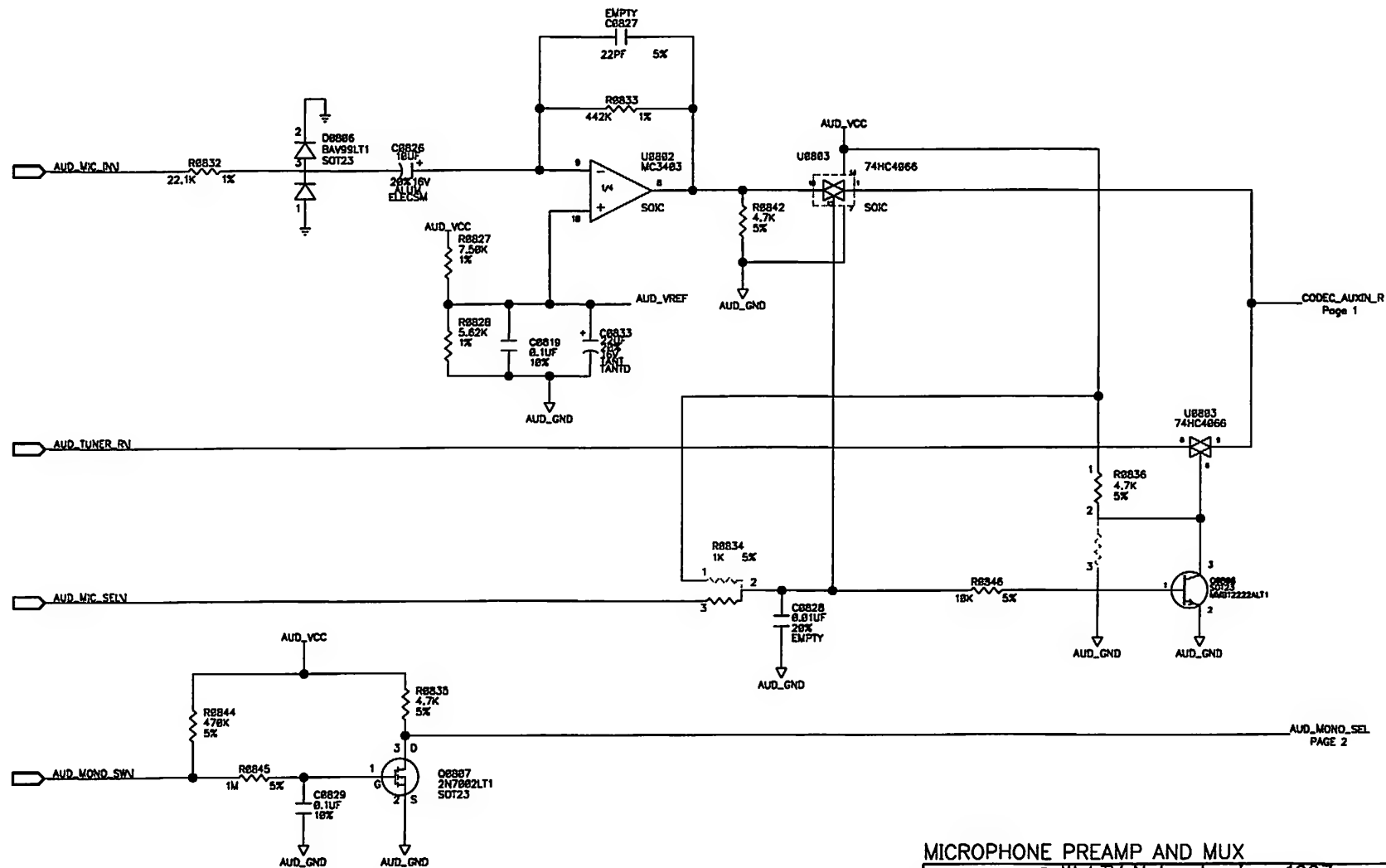
DRAWING  
 TITLE=BLK\_AUDIO  
 ABBREV=BAUD  
 LAST\_MODIFIED=Thu Sep 11 19:01:07 1997

© WebTV Networks, Inc. 1997

This document contains privileged or otherwise legally protected information. Disclosure of this information to anyone other than the recipient is not authorized. You may not read, copy, or otherwise use this document unless you are an authorized representative of a named recipient.

SET: LC2 BLOCK: AUDIO DATE: ENGINEER: SLEATOR APPROVED:

BLOCK	REVISION: 6.8
PAGE: 2 of 3	
SET	REVISION: 7.0
PAGE: 18 of 34	



# MICROPHONE PREAMP AND MUX

© WebTV Networks, Inc. 1997

This document contains privileged or otherwise legally protected information. Disclosure of this information to anyone other than the recipient is not authorized. You may not reproduce, copy, or otherwise use this document unless you are an authorized representative of a named recipient.

SET: LC2 BLOCK: AUDIO DATE: ENGINEER: SLEATOR APPROVED:

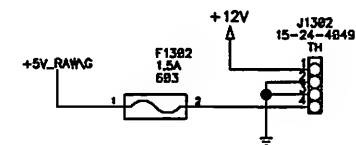
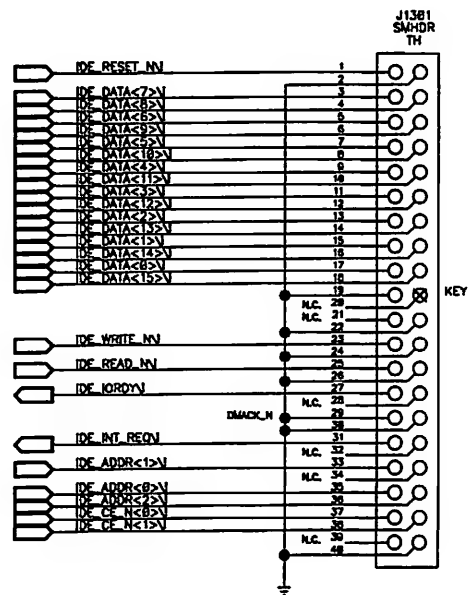
BLOCK REVISION: 0.0 PAGE: 3 of 3

SET REVISION: 7.0 PAGE: 19 of 34

DRAWING  
TITLE=BLK\_AUDIO  
ABBREV=BAUD  
LAST\_MODIFIED=Wed Sep 10 19:38:01 1997

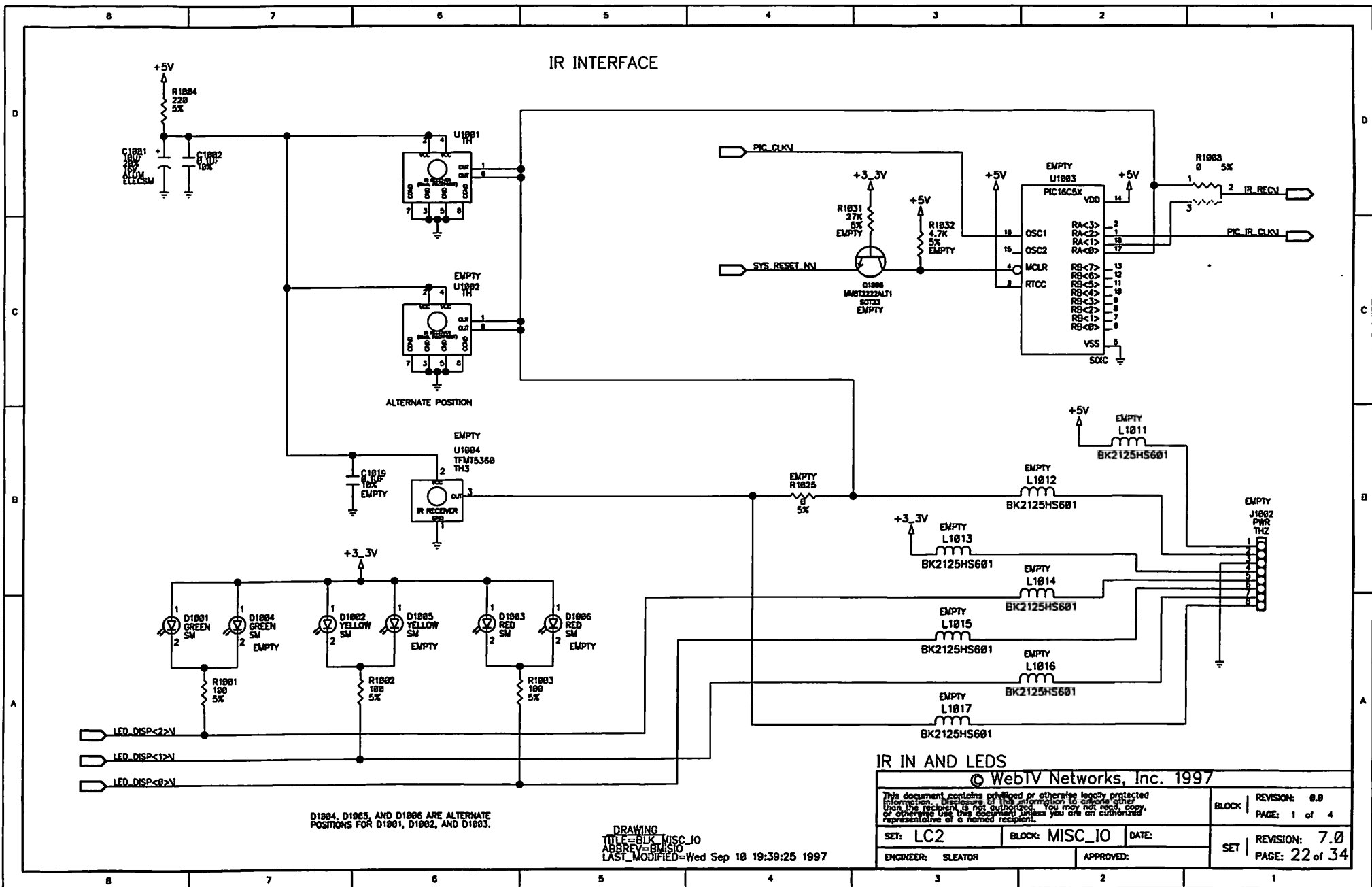


DRAWING  
TITLE=BLK\_EXP  
ABBREV=BLXP  
LAST\_MODIFIED=Wed Sep 10 19:38:54 1997

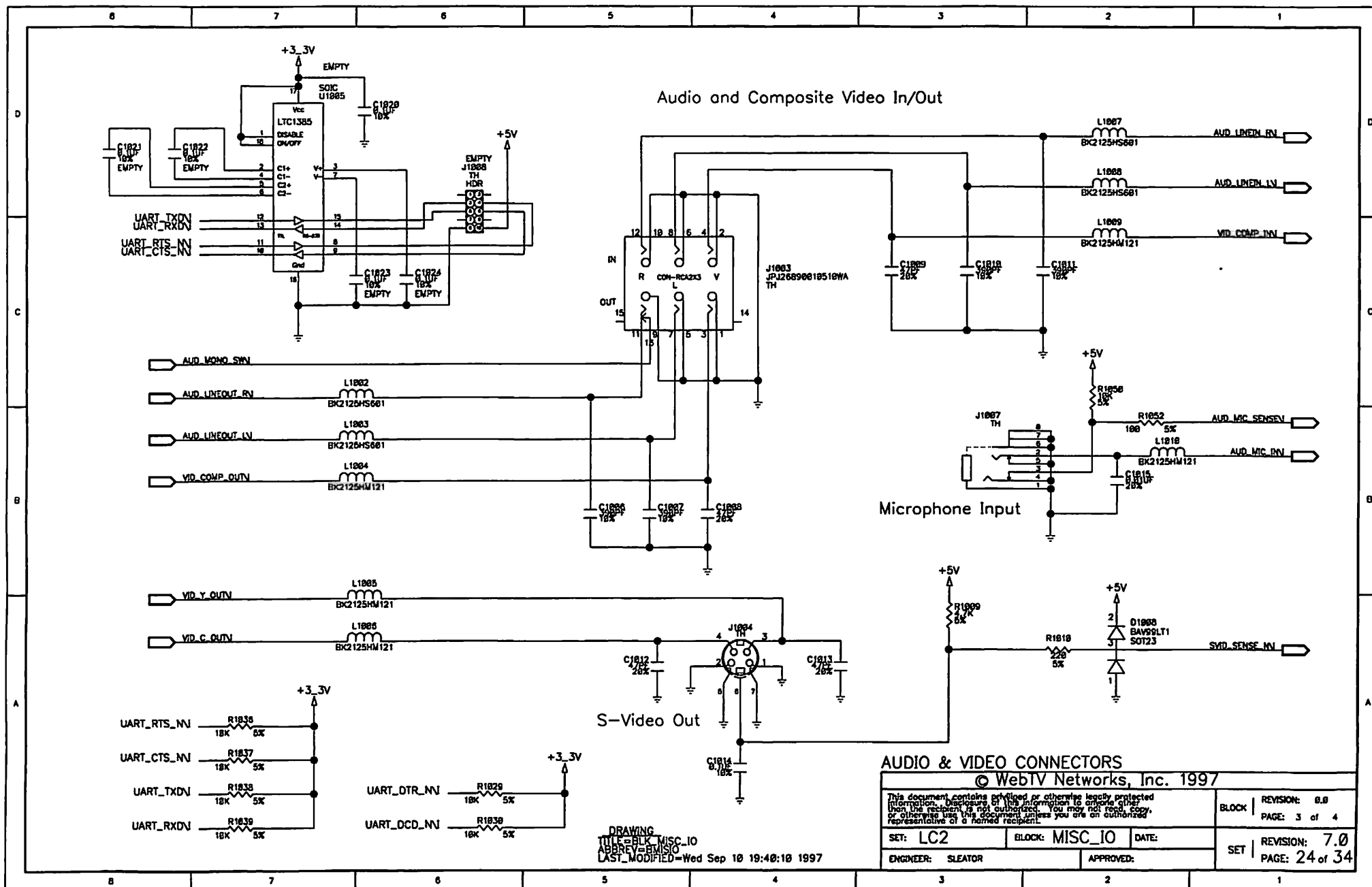


DRAWING  
TITLE=BLK IDE  
ABBREV=BIDE  
LAST\_MODIFIED=Thu Sep 25 20:53:49 1997

© WebTV Networks, Inc. 1997			
<small>This document contains privileged or otherwise legally protected information. Disclosure of this information to anyone other than the recipient is not authorized. You may not read, copy, or otherwise use this document unless you are an authorized representative of a named recipient.</small>		BLOCK	REVISION: 8.0
		PAGE:	1 of 1
SET: LC2	BLOCK: IDE	DATE:	
ENGINEER: SLEATOR	APPROVED:	SET	REVISION: 7.0
		PAGE:	21 of 34



DRAWING  
TITLE=BLK\_MISC\_10  
ABBREV=FMISIO  
LAST\_MODIFIED=Wed Sep 10 19:39:42 1997

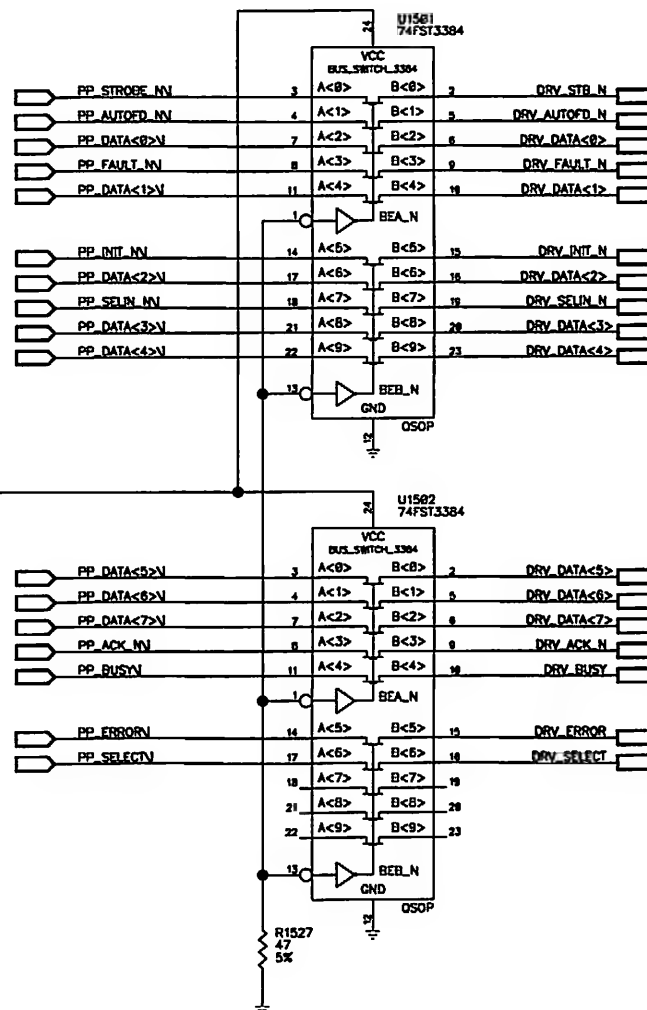
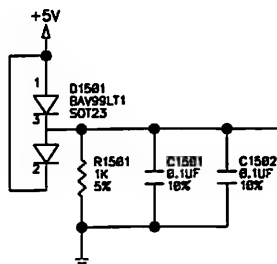






PP\_DIRV is not used.

TP1501  
TP\_75  
TH



DRAWING  
TITLE=BLK\_PPORT  
ABBREV=BPPT  
LAST\_MODIFIED=Wed Sep 10 19:40:46 1997

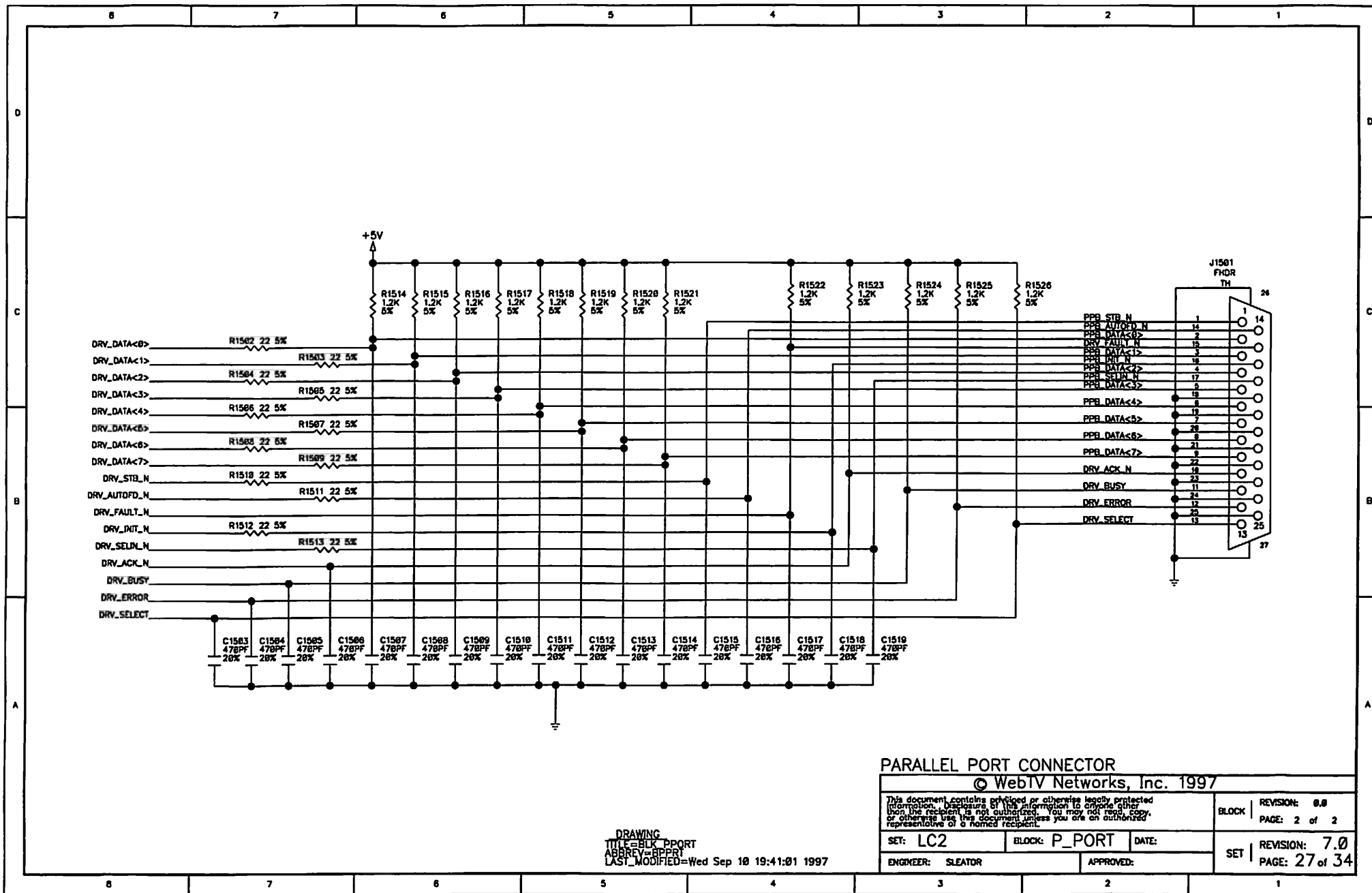
© WebTV Networks, Inc. 1997

This document contains privileged or otherwise legally protected information. Disclosure of this information to anyone other than the recipient is not authorized. You may not reproduce, copy, or otherwise use this document unless you are an authorized representative of a named recipient.

BLOCK REVISION: 0.0  
PAGE: 1 of 2

SET: LC2 BLOCK: P\_PORT DATE:  
ENGINEER: SLEATOR APPROVED:

SET REVISION: 7.0  
PAGE: 26 of 34



# PARALLEL PORT CONNECTOR

© WebTV Networks, Inc. 1997

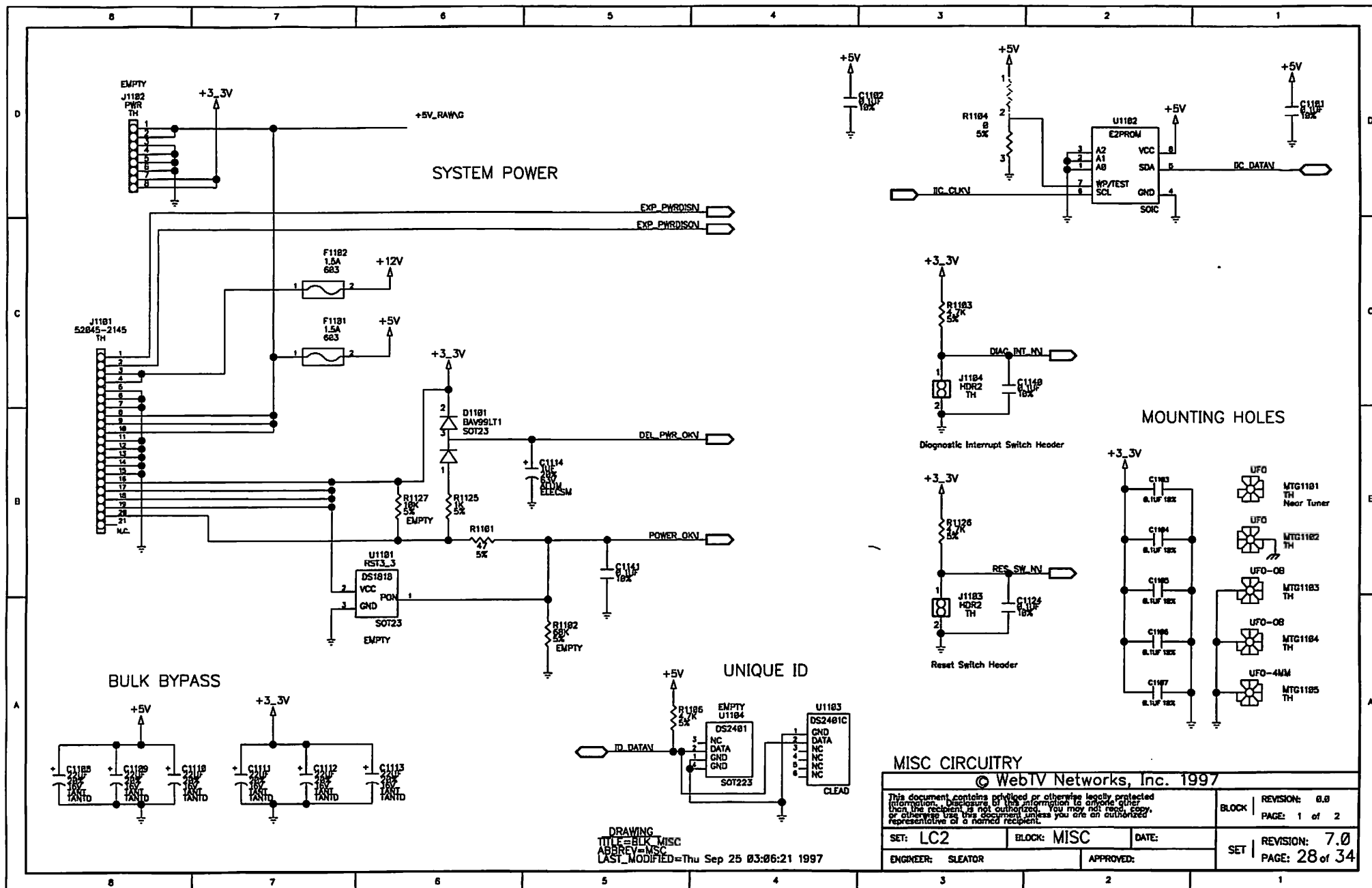
This document contains privileged or otherwise legally protected information. Disclosure of this information to anyone other than the recipient is not authorized. You may not need, copy, or otherwise use this document unless you are an authorized representative of a named recipient.

SET: LC2 BLOCK: P\_PORT DATE: ENGINEER: SLEATOR APPROVED:

BLOCK REVISION: 0.0 PAGE: 2 of 2

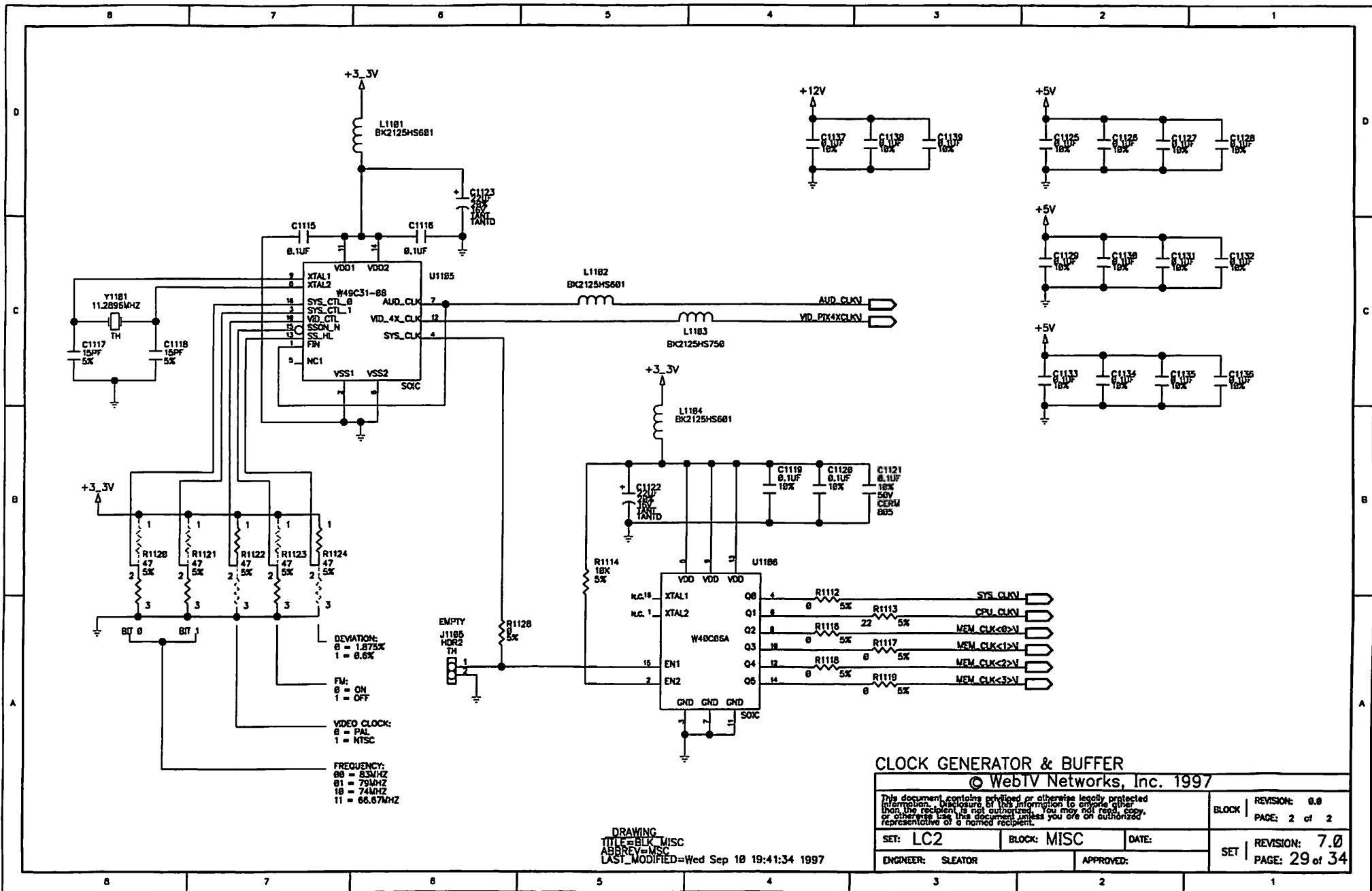
SET REVISION: 7.0 PAGE: 27 of 34

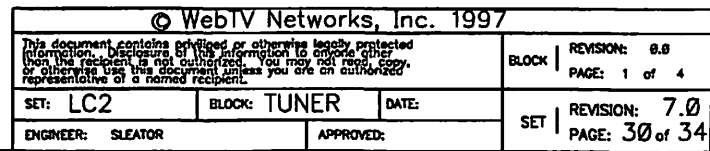
DRAWING  
TITLE=BLK\_PPORT  
ABBREV=PPPR  
LAST\_MODIFIED=Wed Sep 10 19:41:01 1997



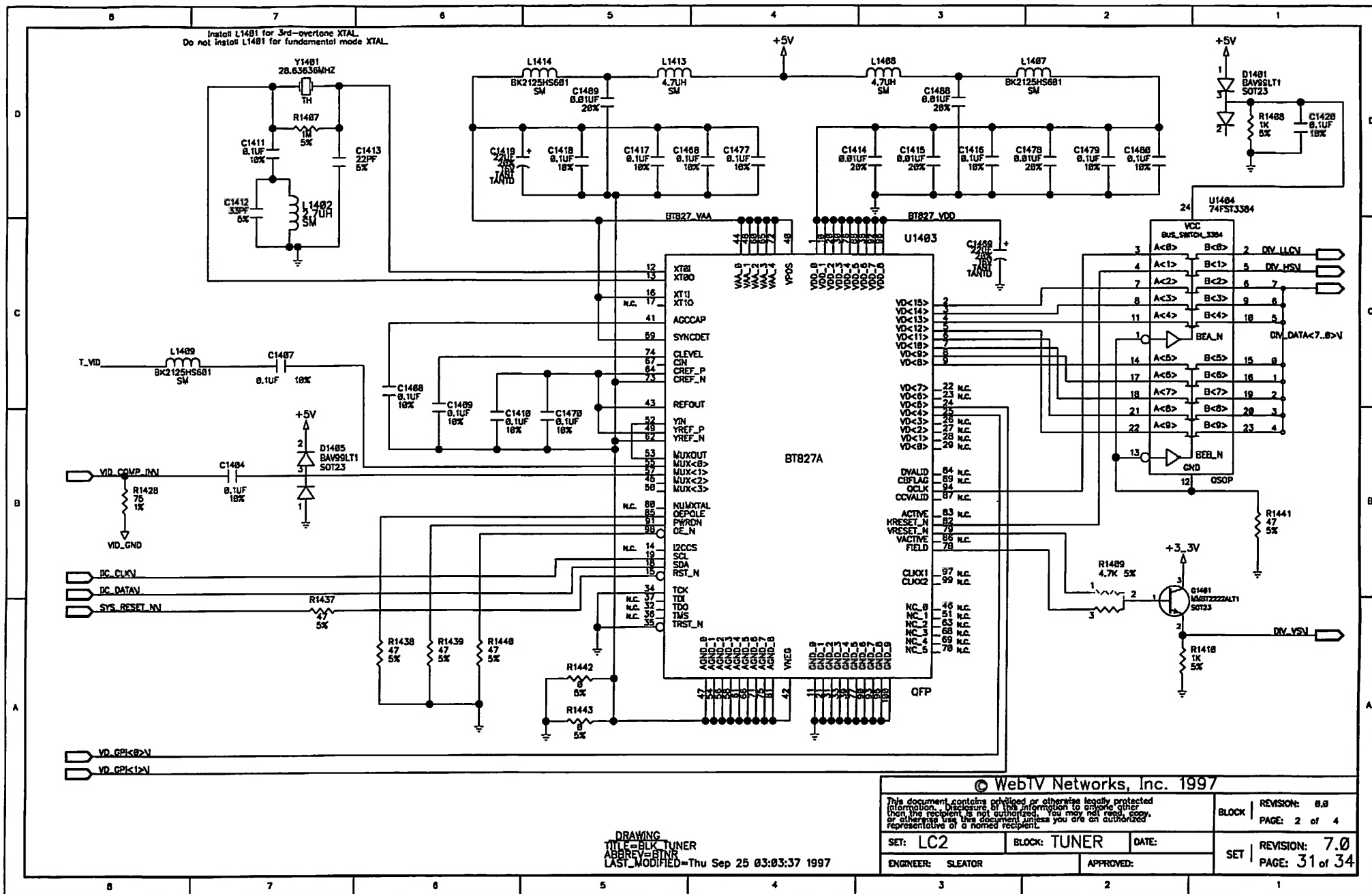
DRAWING  
TITLE=BLK MISC  
ABBREV=MISC  
LAST\_MODIFIED=Thu Sep 25 03:06:21 1997

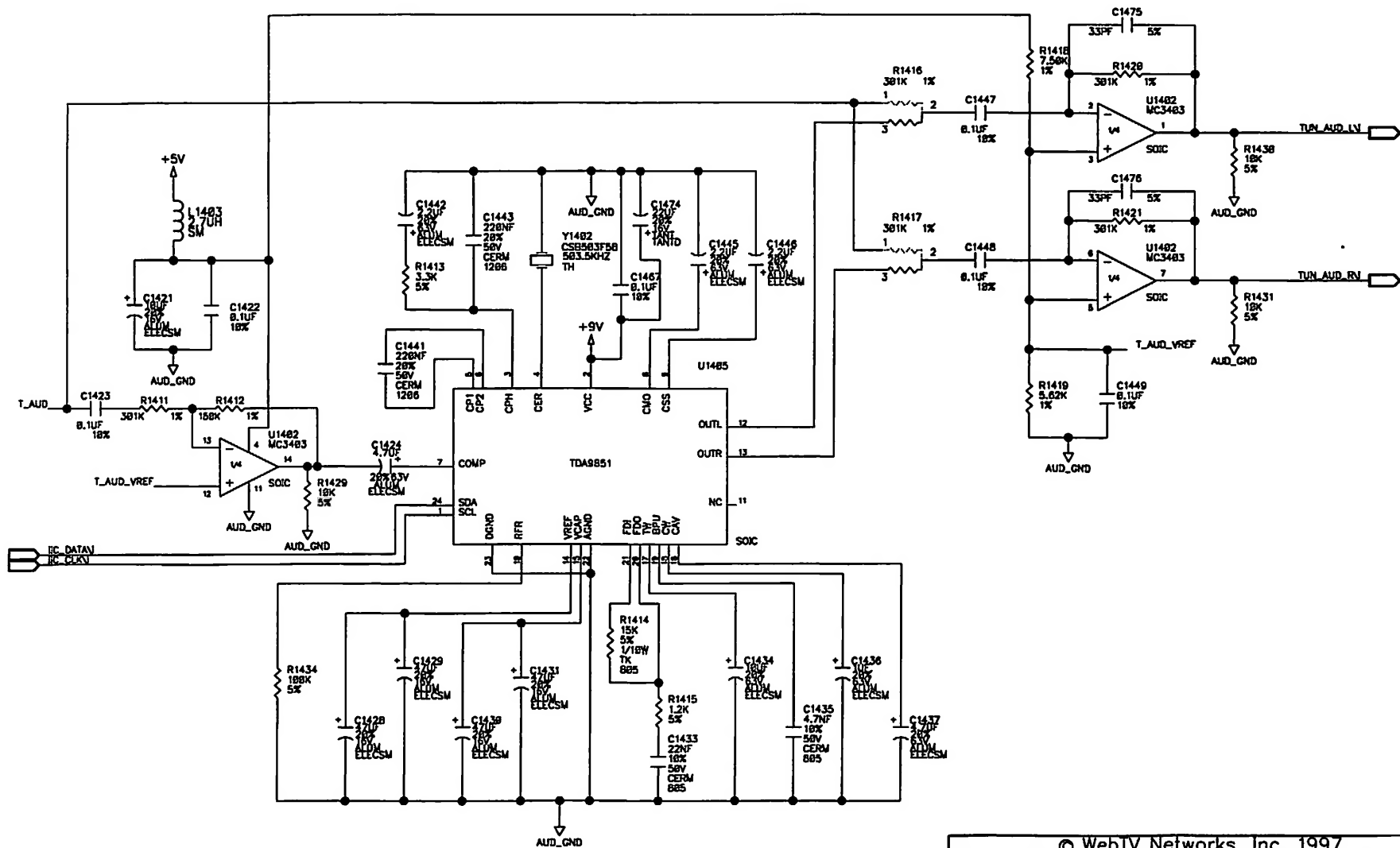
<p>MISC CIRCUITRY</p> <p>© WebTV Networks, Inc. 1997</p> <p>This document contains privileged or otherwise legally protected information. Disclosure of this information to anyone other than the recipient is not authorized. You may not make, copy, or otherwise use this document unless you are an authorized representative of a named recipient.</p>			
SET: LC2	BLOCK: MISC	DATE:	REVISION: 8.0
ENGINEER: SLEATOR	APPROVED:	SET	PAGE: 1 of 2
		REVISION: 7.0	PAGE: 28 of 34





**DRAWING**  
**TITLE=BLK\_TUNER**  
**ABBREV=BTNR**  
**LAST\_MODIFIED=Thu Sep 25 22:57:18 1997**





DRAWING  
TITLE=BLK\_TUNER  
ABBREV=BLK  
LAST\_MODIFIED=Wed Sep 10 19:42:48 1997

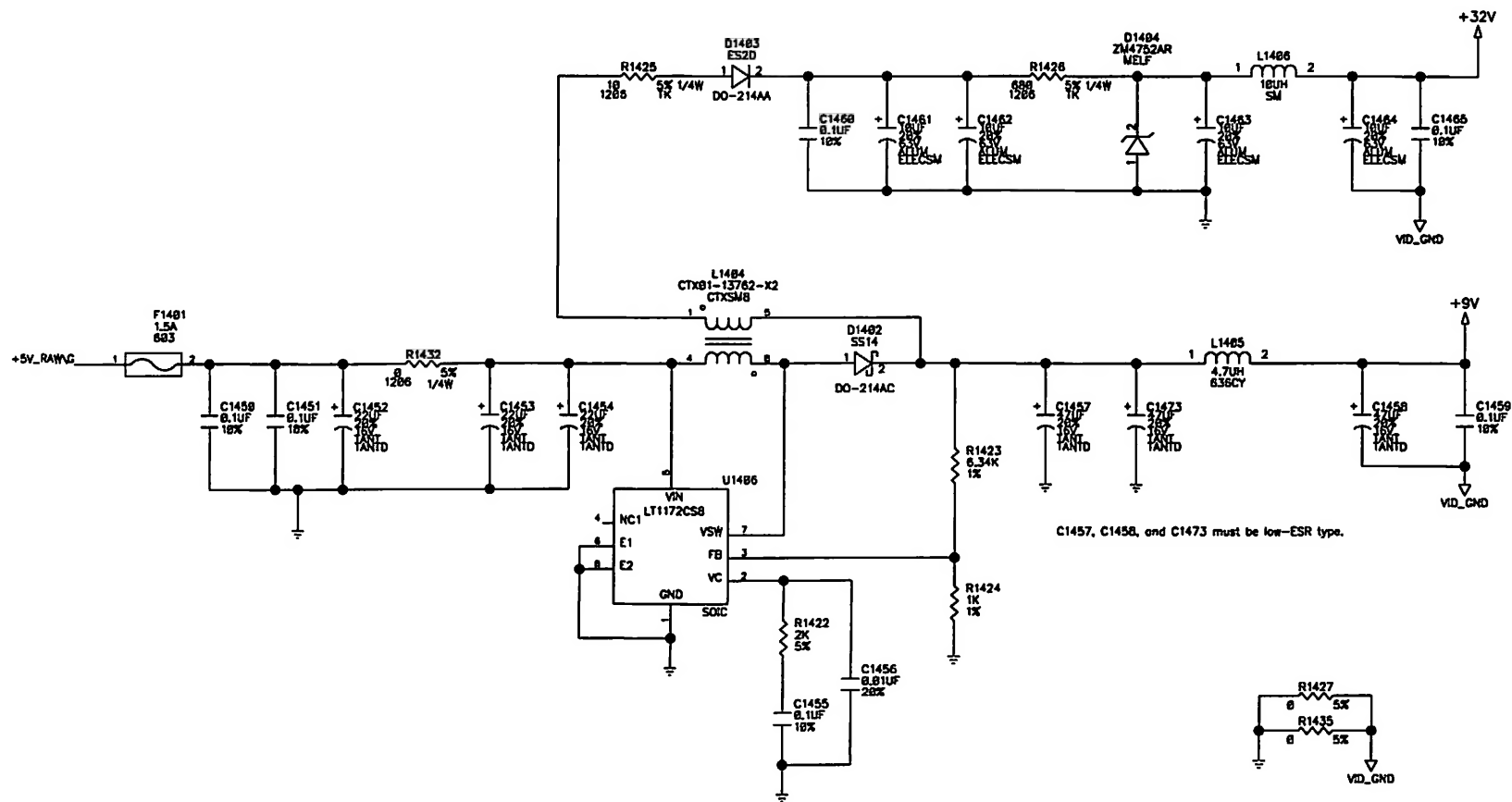
© WebTV Networks, Inc. 1997

This document contains privileged or otherwise legally protected information. Disclosure of this information to anyone other than the recipient is not authorized. You may not reproduce, copy, or otherwise use this document unless you are an authorized representative of a named recipient.

REVISION: 6.8  
PAGE: 3 of 4

SET: LC2  
BLOCK: TUNER  
DATE:  
ENGINEER: SLEATOR  
APPROVED:

REVISION: 7.0  
PAGE: 32 of 34



# TUNER POWER SUPPLY

© WebTV Networks, Inc. 1997

This document contains privileged or otherwise legally protected information. Disclosure of this information to anyone other than the recipient is not authorized. You may not read, copy, or otherwise use this document unless you are an authorized representative of a named recipient.

SET: LC2 BLOCK: TUNER DATE: ENGINEER: EGNER/SLEATOR APPROVED:

BLOCK REVISION: 0.0 PAGE: 4 of 4

SET REVISION: 7.0 PAGE: 33 of 34

DRAWING  
TITLE=BULK TUNER  
ABBREV=BTNR  
LAST\_MODIFIED=Wed Oct 22 22:57:54 1997



